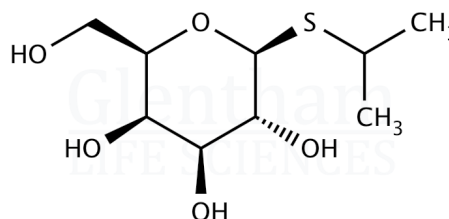


## Certificate of Analysis

Product Name IPTG  
Glentham Code GC6586  
CAS Number 367-93-1  
EINECS 206-703-0  
MDL-Nummer MFCD00063273  
PubChem SID 310275355  
Batch Number 096XEV

Molecular Weight 238.30  
Molecular Formula  $C_9H_{18}O_5S$   
Storage Temp. +4°C



| Property                                        | Specification                 | Batch 096XEV             |
|-------------------------------------------------|-------------------------------|--------------------------|
| Physical Description                            | White crystalline powder      | White crystalline powder |
| Solubility                                      | Soluble in water and methanol | Entspricht               |
| Identification                                  | IR                            | Entspricht               |
| pH                                              | 5.0 - 7.0 (5% in water)       | 5.7                      |
| UV Absorbance (5% in water)                     | 300nm: $\leq 0.15$            | $< 0.01$                 |
|                                                 | 400nm: $\leq 0.06$            | $< 0.01$                 |
| Melting Point                                   | 110 - 114 °C                  | 113.4°C                  |
| Water (KF)                                      | $\leq 1.0\%$                  | 0.8%                     |
| Individual Impurity                             | 1,4-Dioxane: Absent           | Entspricht               |
| Specific Optical Rotation ( $[\alpha]_{20/D}$ ) | -28.5 - -34.5 ° (c=1, water)  | -31.9°                   |
| Purity (HPLC)                                   | $\geq 98.0\%$                 | 99.3%                    |
| Assay (HPLC)                                    | 98.0 - 101.0 %                | 99.3%                    |

Specification Version v1.0  
Manufacture Date 2023-06-01  
Re-Test Date 2030-05-12

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check [www.glentham.com](http://www.glentham.com) or contact us using the details above for the current version of this document.

This document was generated electronically and is therefore valid without signature. © Glentham Life Sciences Ltd, 2025